

Title (en)
MIXING HOPPER

Publication
EP 0263996 A3 19891213 (DE)

Application
EP 87113684 A 19870918

Priority
• DE 3635326 A 19861017
• DE 3707880 A 19870312

Abstract (en)
[origin: EP0263996A2] The hopper consists of an upper hopper part and a hopper neck (8). The upper hopper part is constructed in each case from a trapezoidal outer upper hopper part (3) and an inner upper hopper part (4) spaced apart to form an annular space (6). The gap between the outer upper hopper part (3) and the inner upper hopper part (4) is closed near to their upper edges. The hopper neck (8) is joined, making a seal, to the lower edge of the outer upper hopper part (3). Finally, an inlet pipe (7) for tangential charging with liquid penetrates the outer upper hopper part (3) in its upper region.

IPC 1-7
B01F 5/00

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [X] FR 1450789 A 19660624
• [A] US 3246883 A 19660419 - ASHBROOK CLIFFORD L
• [A] FR 1005450 A 19520410
• [A] FR 1146287 A 19571108
• [A] US 4125334 A 19781114 - JONES GRAHAM S
• [A] US 3960175 A 19760601 - LIEPE FRIEDRICH, et al
• [A] US 4218012 A 19800819 - HAMZA HASSAN A [CA], et al
• [A] US 1947851 A 19340220 - JEWETT JOSEPH E
• [A] US 4125331 A 19781114 - CHISHOLM JAMES P

Cited by
EP0908284A3; EP0419280A1; WO0056432A1

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